REMARKS/ARGUMENTS

1. Rejection of claims 1-3, 5, 7-10, 12, 14, 15:

Response:

Claim 1:

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5 Claim 1 has been amended to overcome this rejection. Specifically, the

limitations "each sub-circuit cell comprises a transmission terminal" and "each sub-circuit

block comprises at least two N-type MOS transistors or P-type MOS transistors which

have doped regions with different areas" have been added to claim 1. These limitations

find support in paragraphs [0024], [0026], and Figs. 3-4 for instance, and no new matter

is introduced. Acceptance of the amendment is politely requested.

First of all, the amended claim 1 includes the limitation "each sub-circuit cell

comprises a transmission terminal". Regarding US 5,858,817, Bansal fails to teach that

each sub-circuit cell comprises a transmission terminal, which is configured to electrically

connected the sub-circuit cell with a particular function implemented by programming the

layout of the connection layer to a kernel circuit.

Secondly, the amended claim 1 teaches the limitation "each sub-circuit block

comprises at least two N-type MOS transistors or P-type MOS transistors which have

doped regions with different areas." By connecting these transistors with different size

of doped regions with the connection layer, different and desired I/O functions can be

implemented for the sub-circuit cells. On the other hand, Bansal teaches electrically

connecting same types of logic cells in different way to form different logic elements

such as inverter, NAND, AND, etc. as disclosed in col. 3, lines 21-25. Bansal fails to

teach or suggest these logic cells have different doped regions as claim 1 does.

Based on the above traversals, the amended claim 1 is patentably distinct from

Bansal's teaching, and should be allowed. Reconsideration of claim 1 is respectfully

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requested.

Claims 2-3, 5, 7-8:

Claims 2-3, 5 and 7-8 are dependent on claim 1, and should be allowed if claim 1 is

found allowable. Reconsideration of claims 2-3, 5 and 7-8 is politely requested.

Claim 9:

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Claim 9 has been amended to overcome this rejection. Specifically, the

limitations "each sub-circuit cell comprises a transmission terminal" and "each sub-circuit

block comprises at least two N-type MOS transistors or P-type MOS transistors which

have doped regions with different areas" have been added to claim 9. These limitations

find support in paragraphs [0024], [0026], and Figs. 3-4 for instance, and no new matter

is introduced. Acceptance of the amendment is politely requested.

15 First of all, the amended claim 9 includes the limitation "each sub-circuit cell

comprises a transmission terminal". Regarding US 5,858,817, Bansal fails to teach that

each sub-circuit cell comprises a transmission terminal, which is configured to electrically

connected the sub-circuit cell with a particular function implemented by programming the

layout of the connection layer to a kernel circuit.

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Secondly, the amended claim 9 teaches the limitation "each sub-circuit block

comprises at least two N-type MOS transistors or P-type MOS transistors which have

doped regions with different areas." By connecting these transistors with different size

of doped regions with the connection layer, different and desired I/O functions can be

implemented for the sub-circuit cells. On the other hand, Bansal teaches electrically

connecting same types of logic cells in different way to form different logic elements

such as inverter, NAND, AND, etc. as disclosed in col. 3, lines 21-25. Bansal fails to

teach or suggest these logic cells have different doped regions as claim 9 does.

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Based on the above traversals, the amended claim 9 is patentably distinct from Bansal's teaching, and should be allowed. Reconsideration of claim 9 is respectfully requested.

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Claims 10, 12, 14-15:

Claims 10, 12 and 14-15 are dependent on claim 9, and should be allowed if claim 9 is found allowable. Reconsideration of claims 10, 12 and 14-15 is politely requested.

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2. Rejection of claims 6 and 13 under 35 U.S.C. 103(a) as being unpatentable over Bansal and further in view of Maeda (US 6,052,014):

Response:

Claim6:

15 Claim 6 is dependent on claim 1, and should be allowed if claim 1 is found allowable. Reconsideration of claim 6 is politely requested.

Claim 13:

Claim 13 is dependent on claim 9, and should be allowed if claim 9 is found allowable. Reconsideration of claim 13 is politely requested.

Applicant respectfully requests that a timely Notice of Allowance be issued in this case.

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Sincerely yours,

| Wentonton | | |
|------------------|-------|------------|
| CUCCONON - Jacob | Date: | 07/02/2008 |

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Note: Please leave a message in my voice mail if you need to talk to me. (The time in D.C. is 12 hours behind the Taiwan time, i.e. 9 AM in D.C. = 9 PM in Taiwan.)